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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,879	09/22/2003	Hideharu Takezawa	43888-276	4252
MCDERMOTT, WILL & EMERY 600 13th Street, N.W.			EXAMINER HODGE, ROBERT W	
			1745	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	1./
	10/664,879	TAKEZAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Robert Hodge	1745	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by a Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a ron. Deriod will apply and will expire SIX (6) MON statute, cause the application to become AE	CATION. eply be timely filed ITHS from the mailing date of this comm ANDONED (35 U.S.C. § 133).	
Status			•
1) ⊠ Responsive to communication(s) filed on a 2a) □ This action is FINAL. 2b) ⊠ 3) □ Since this application is in condition for all closed in accordance with the practice under the condition of	This action is non-final. Iowance except for formal matt	• •	erits is
Disposition of Claims			
4)	hdrawn from consideration. and/or election requirement. miner. 13 is/are: a) □ accepted or b) □ to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/31/06.	8) Paper No(s	Summary (PTO-413) S)/Mail Date nformal Patent Application 	

DETAILED ACTION

Response to Arguments

Applicant's arguments, see Remarks, filed 11/30/06, with respect to the rejection(s) of claim(s) 1-7 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Applicants' admitted prior art.

Drawings

Figures 3 and 4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 7 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 5. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is

proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how a "plurality of steps" can be present in the instant invention when there is only one edge that would contain a step, especially as illustrated in figure 1. Therefore as long as the prior art teaches "at least one step" as is seen in figure 1 it will read on the claim as so recited.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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Art Unit: 1745

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' admitted Prior Art hereinafter AAPA in view of JP-11-27339 hereinafter Anzai.

As can clearly be seen in figure 3 of the instant application and described in applicants background section, AAPA teaches the instantly claimed invention except for the insulating member that covers a separator and current collector from an inner side of said electrode group.

Anzai teaches a non-aqueous electrolyte secondary battery having a spiral electrode group formed by winding positive and negative electrodes having a separator interposed between and a battery case for housing said electrode group. Anzai also teaches that the positive electrode includes a current collector and positive electrode material which when wound would be on both sides of the current collector and the negative electrode includes a current collector and negative electrode material which when wound would be on both sides of the current collector and tabs would be respectively connected to the current collectors. Anzai further teaches the necessity for the use of an ionic insulator arranged at an innermost or outermost circumferential side at the end (or step as applicants define in their specification) of the positive electrode and is adhered to a position opposing the end (abstract, paragraphs [0016]-[0021] and [0026]-[0038]).

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At the time of the invention it would have been obvious to one having ordinary skill in the art to include an ionic insulator in AAPA as taught by Anzai in order to prevent short circuiting of the electrode group within the battery thereby increasing the battery life and reducing any possible explosion hazards from the short circuit igniting hydrogen that is created during discharge of the battery.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RWH

PATRICK JOSEPH RYAN SUPERVISURY PALLINT EXCAINER